LISTING OF CLAIMS:

1. (Previously Presented) Biodegradable, phase separated multiblock copolymer, comprising:

segments of a soft biodegradable prepolymer (A) having a glass transition temperature (T_g) lower than $37^{\circ}C$; and

segments of a hard biodegradable prepolymer (B) having a melting point temperature $(T_{\rm m})$ of 40- 100° C, the segments being linked by a multifunctional chain-extender, wherein said chain-extender is an aliphatic chain-extender,

wherein the segments of the soft biodegradable prepolymer (A) and the segments of the hard biodegradable prepolymer (B) are randomly distributed in the copolymer.

2. (Cancelled)

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (A) comprises ester and/or carbonate groups.
- (Previously Presented) Copolymer according to claim 1, wherein a polyether is present as an additional prepolymer.
- (Previously Presented) Copolymer according to claim 1, wherein pre-polymer (A) comprises reaction products of ester forming monomers selected from diols, dicarboxylic acids and hydroxycarboxylic acids.

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (A)
 comprises reaction products of cyclic monomers and/or non-cyclic monomers.
- 7. (Previously Presented) Copolymer according to claim 6, wherein said cyclic monomers are selected from glycolide, lactide (L, D or L/D), ε-caprolactone, δ-valerolactone, trimethylene carbonate, tetramethylenecarbonate, 1, 5-dioxepane-2-one, 1, 4-dioxane-2-one (para-dioxanone) and/or cyclic anhydrides such as oxepane-2, 7-dione.
- 8. (Previously Presented) Copolymer according to claim 6, wherein said non-cyclic monomers are selected from succinic acid, glutaric acid, adipic acid, sebacic acid, lactic acid, glycolic acid, hydroxybutyric acid, ethylene glycol, diethyleneglycol, 1, 4-butanediol and/or 1, 6-bexanediol
- (Previously Presented) Copolymer according to claim 4, wherein said polyether is selected from PEG (polyethylene glycol), PEG-PPG (polypropylene glycol), PTMG (polytetramethyleneether glycol) and combinations thereof.
- (Previously Presented) Copolymer, according to claim 1, wherein prepolymer (A) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.
- (Currently Amended) Copolymer according to claim 9 claim 10, wherein PEG is an initiator with a molecular weight of 150-4000.

- (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) is prepared by a ring-opening polymerisation initiated by a diol or di-acid compound.
- 13. (Previously Presented) Copolymer according to claim 1, wherein prepolymer (B) contains a crystallisable amount of ε-caprolactone, δ-valerolactone, para-dioxanone, polyhydroxyalkanoate, aliphatic polyanhydride.
- (Original) Copolymer according to claim 13, wherein pre-polymer (B) is poly-e-caprolactone.
- (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has an average molecular weight (M₀) of larger than 1000.
- 16. (Previously Presented) Copolymer according to claim 14 wherein the content of prepolymer (B) is 10-90 wt.%.
- (Previously Presented) Copolymer according to claim 1, having an intrinsic viscosity of at least 0.1 dl/g.
 - 18-26. (Cancelled)
 - 27. (Previously Presented) An implant comprising a copolymer according to claim 1.
 - 28-30. (Cancelled)

- 31. (Previously Presented) Copolymer according to claim 3, wherein the ester and/or carbonate groups are in combination with polyethers.
- (Previously Presented) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 150-2000.
- (Previously Presented) Copolymer according to claim 9, wherein PEG is an initiator with a molecular weight of 300-1000.
- 34. (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has and average molecular weight (Mn) of larger than 2000.
- 35. (Previously Presented) Copolymer according to claim 14, wherein pre-polymer (B) has and average molecular weight (Mn) of larger than 3000.
- 36. (Previously Presented) Copolymer according to claim 14 wherein the content of prepolymer (B) is 30-50 wt.%.
- (Previously Presented) Copolymer according to claim 1, having an intrinsic viscosity of between 1-4 dl/g.